SIGLENT®

The leading manufacturer of oscilloscopes by shipments in China

Catalog 2015

- Super Phosphor Oscilloscope
- Digital Multimeter
- Handheld Oscilloscope
- Function/Arbitrary Waveform Generator
- Digital Oscilloscope
- DC Power Supply
- Probes & Accessories

SIGLENT TECHNOLOGIES CO.,LTD.

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Company Profile

SIGLENT TECHNOLOGIES Co., Ltd.

-The leading manufacturer of oscilloscopes by shipments in China.

SIGLENT
has been providing Test & Measurement solutions for almost 12 years with its offices in Shenzhen, China. There are more than 200 employees, one third of them are high-educated R&D engineers.

SIGLENT has obtained many own patent technologies so far. We always dedicate to develop sophisticated and high quality digital oscilloscope, waveform generator, handheld digital oscilloscope, spectrum analyzer and DC power supply, and we always strive for providing highest quality, best service and greatest satisfaction to our customers.

SIGLENT provides the following instruments:

-Super Phosphor Oscilloscope
-Digital storage oscilloscope
-Function/Arbitrary waveform generator
-Handheld digital oscilloscope
-Spectrum analyzer
-Programmable Linear DC power supply
-Probes

SIGLENT is sincerely expecting you to become our distributors, if you are interested,

Please email : sales@siglent.com

SIGLENT factory

Four product lines and more than 70 workers in workshop
The product capacity peak can up to 4500 pieces per month
The production management system
The quality control system

-Production automation calibration and testing

-The aging room(24 hours running)

-Reliability test

-Full check system

-Double check before delivery

SDS2000 Super Phosphor Oscilloscope

Photograph		
Model/Bandwidth	SDS2074 70MHz SDS2104 100MHz SDS2204 200MHz SDS2304 300MHz	SDS2072 70MHz SDS2102 100MHz SDS2202 200MHz SDS2302 300MHz
Channel	2/4 CH + 1EXT , 8 digital channels(optional)	
Real time sampling rate	2GSa/s	
Memory depth	28Mpts	
Maximum capture rate	110,000wfms/s	
Segmented memory	80,000frames	
Display	8 inches(800*480) TFT-LCD	

SDS1000 Series Digital Storage Oscilloscope

Photograph				
Model/Bandwidth	SDS1074CFL 70MHz SDS1104CFL 100MHz SDS1202/4CFL 200MHz SDS1302/4CFL 300MHz	SDS1202CNL+ 200MHz	SDS1072CML 70MHz SDS1102CML 100MHz	SDS1052DL 50MHz
Real time sampling rate	2GSa/s	2GSa/s	1GSa/s	500MSa/s
Memory depth	24Kpts	18Kpts	2Mpts	32Kpts
Channel numbers	2/4CH+1EXT	2CH+1EXT	2CH+1EXT	2CH+1EXT
Display	7 inches(8*18div) color TFT-LCD			

*SDS1202CNL+ is the upgrade version of SDS1202CNL

SDG800/SDG1000/SDG5000 Series Function/Arbitrary Waveform Generator

Photograph			
Model	SDG805/810/830	SDG1010/1025/1050	SDG5082/5122/5162
Maximum output frequency	5/10/30 MHz	10/25/50 MHz	80/120/160 MHz
Output channels	1	2	2
Sampling rate	125MSa/s	125MSa/s	500MSa/s
Waveform length	16Kpts	16Kpts	CH1:16Kpts CH2: 512Kpts
Amplitude(high impedance)	4mVpp~20Vpp(≤10MHz) 4mVpp~10Vpp(>10MHz)	CH1: 4mVpp~20Vpp(≤10MHz) 4mVpp~10Vpp(>10MHz) CH2: 4mVpp~6Vpp	2mVpp~20Vpp(≤40MHz) 2mVpp~10Vpp(40MHz~100MHz) 2mVpp~3Vpp(100MHz~160MHz)
Interface	USB Host, USB Device, USB-GPIB(optional)	USB Host, USB Device (standard); USB-GPIB(optional)	USB Host, USB Device (standard); USB-GPIB(optional)
Modulation function	AM, DSB-AM, FM, PM, ASK, FSK, PWM, Sweep, Burst		

SHS1000/SHS800 Series Handheld Digital Oscilloscope

Photograph					
Model	SHS1062	SHS1102	SHS806	SHS810	SHS820
Oscilloscope Specifications					
Bandwidth	60MHz	100MHz	60MHz	100MHz	200MHz
Channels	2		2		
Real time sampling rate	1GSa/s				500MSa/s
Memory depth	2Mpts				32Kpts
Recorder	7M points				
Oscilloscope trend plot	800K/CH				
Multimeter Specifications					
Maximum resolution	6000 counts				
Measurement items	DCV, ACV, DCI, ACI, Capacitance, Impedance, Continuity, Diode				
Multimeter trend plot	1.2M points				
Input channel voltage					
Probe input	CAT II 1000V, CAT III 600V		Standard probe: CAT II 400V Optional probe: CAT II 1000V, CAT III 600V		
Max. float voltage between BNC reference and earth ground	CAT II 1000V, CAT III 600V		/		
Max. float voltage between BNC references	CAT II 1000V, CAT III 600V		/		
General Feature					
Display	5.7 inches color TFT-LCD				
Operating time	>4 hours		>5 hours		

SPD3303C/D/S Programmable DC Power Supply

Photograph			
Model	SPD3303C	SPD3303D	SPD3303S
Channels	CH1: DC voltage range: 0-30V, DC current range: 0-3A CH2: DC voltage range: 0-30V, DC current range: 0-3A CH3: DC voltage range: 2.5/3.3/5.0V, DC current range: 0-3A		
Min voltage/current	10mV 10mA		1mV 1mA

SDM3000 Digital Multimete

Photograph	
Item	SDM3055 / SDM3055A
Specification	True RMS 5½ digits digital multimerter Up to 150rdgs/s measurement speed 1Gb Nand Flash total capacity,mass storage settings and data files,supports expandable storage to external U disk
Interface	USB Device, USB Host, LAN / USB Device, USB Host, LAN, GPIB

Accessories

Photograph				
Item	Isolated Front End(ISFE)	USB-GPIB Communication module	Oscilloscope carrying case	Ordinary passive voltage probe
Specification	Input voltage: -600Vpk ~+600Vpk, USB supply power, Bandwidth: ≤1 MHz	Based on IEEE488.2 Standard USB supply power	Color: Black Material: 100% Polyester	Bandwidth:70MHz-300MHz 1X: <300V DC+Peak AC 10X: <600V DC+Peak AC

SDS2000

Super Phosphor Oscilloscope

Application

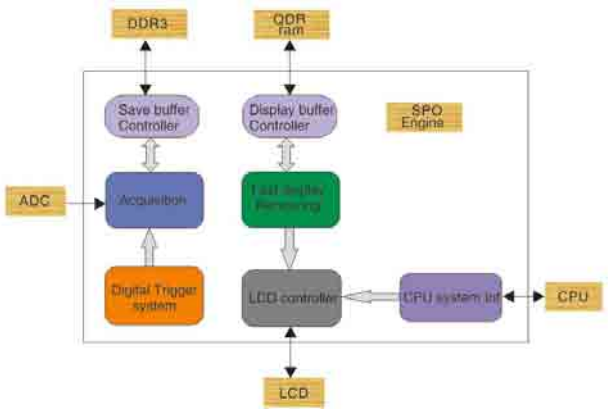
- Design and debugging for embedded electronic circuit
- Design and analysis for mechanical and electronic products
- Education and scientific research
- Product quality control
- Momentary signal detection
- Manufacturing test and Circuit function test

Features and Benefits

- Bandwidth 70MHz,100MHz,200MHz,300MHz
- Real time sampling rate, Analog channel: 2GSa/s, Digital channel: 500MSa/s (optional)
- Provide 2/4 analog channels, 8 digital channels (optional)
- Built-in 25MHz function/arbitrary waveform generator (optional)
- A variety of serial protocol trigger and decode functions (IIC, SPI, UART/RS232, CAN, LIN)
- A variety of smart trigger functions (Pattern, Window, Interval, DropOut, Runt) and HDTV trigger
- Support history function and segmented memory (std.up to 80,000 frames)
- Hardware-based zoom function and high speed Pass/Fail function technology
- 32 kinds of automatic waveform measurements, support measurement statistics function
- Advanced waveform math operations (FFT, differential, integral, square root)
- Complete connectivity: USB Host, USB Device (USBTMC, PictBridge), LAN(VXI-11), EXT TRIG, PASS/FAIL,TRIG OUT
- Optional power analyzer kit for parameter measurement such as power quality analyzer, switching loss, transient reponse, etc.
- Support SCPI remote control commands
- Multi-language user interface and built-in online help system
- 8 inches TFT-LCD(800*480)

Specifications

Model	SDS2072 SDS2074	SDS2102 SDS2104	SDS2202 SDS2204	SDS2302 SDS2304
Bandwidth	70MHz	100MHz	200MHz	300MHz
Channels	2/4 CH + 1EXT + 8 digital channels (optional)			
Real time sampling rate	2GSa/s			
Memory depth	28Mpts			
Maximum capture rate	110,000 wfms/s			
Input impedance	1MΩ||20pF, 50Ω			
Time base range	1.0ns/div~50s/div			
	ROLL: 100ms~50s/div			
Vertical sensitivity	2mv/div~10v/div			
Trigger types	Edge, Pulse, Video, Slope, Interval, Runt, Window, Pattern, DropOut, Series protocol trigger			
Decode types	IIC, SPI, UART/RS232, CAN, LIN			
MATH operation	+, -, *, /, FFT, d/dt, ∫ dt, √			
Automatic measurement	Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Mean, Crms, Vrms, ROV, FOV, RPRE, FPRE, Rise time,			
	Fall time, Freq, Period, + Wid, - Wid, + Dut, - Dut, BWid, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF			
External storage	Bitmap save, CSV save, Waveform save, Setup save			
Interface	USB Host(support USB-GPIB), USB Device, LAN, EXT TRIG, Aux(TRIG OUT/Pass/Fail)			
Display	8 inches(800*480) TFT-LCD			
Maximum input voltage	± 400 V (DC+AC Pk-Pk) CAT I CAT II			
Power supply	AC: 100~240V, 45~440Hz, 50VAMax			
Dimensions	352mm*112mm*224mm(length*width*high)			
Weight	Net weight: 3.4kg(2CH), 3.5kg(4CH)			
	Package weight: 4.9kg(2CH), 5.1kg(4CH)			



SPO

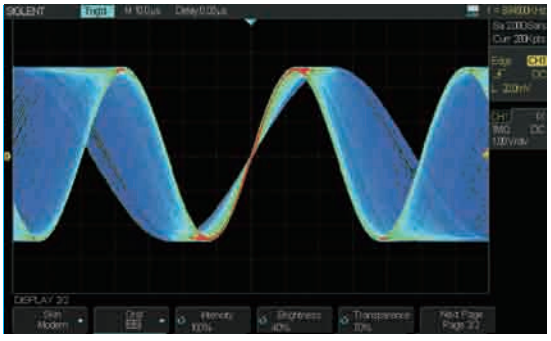
Super Phosphor Oscilloscope

- Waveform capture rate up to 110,000 waveforms per second
- Memory depth up to 28Mpts
- Hardware-based digital trigger system, lower trigger jitter and higher stability
- Support 256 intensity grading and color temperature waveform display

Design Features:

Waveform capture rate up to 110,000wfms/s, for quick capture of glitches on signal or abnormal signal.

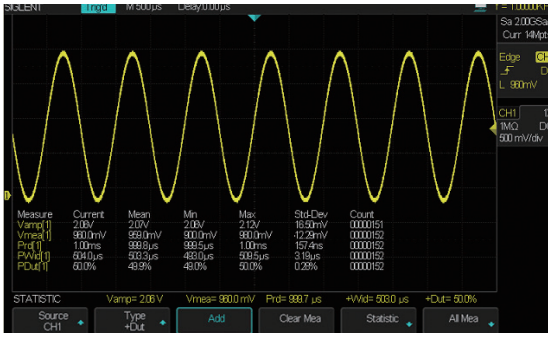
Through externally connected to DDR3 RAM , the SPO technology achieves memory depth up to 28Mpts. In figure above, the time base is 1ms/div, however, the sampling rate reaches to the max. 2GSa/s. It is stable to observe signal details in Zoom window.



Support 256 intensity grading and color temperature waveform display. Above is color temperature figure for FM signal.

Support a variety of serial protocol trigger and decode functions (IIC, SPI, UART/RS232, CAN, LIN), to help users design product and make hardware debugging in efficient and right way.

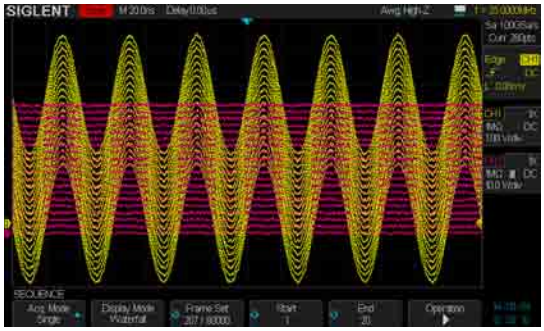
Support built-in 25MHz function/arbitrary waveform generator, which is configured with up to 10 kinds of waveforms, could display any waveform through connected to the upper computer software EasyWave.



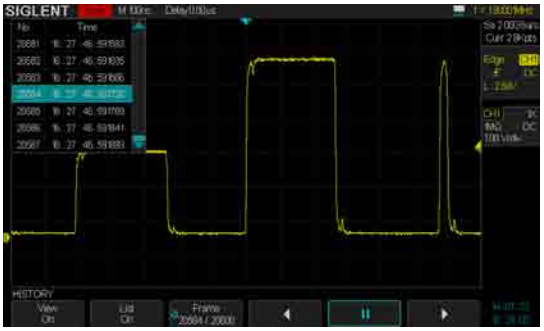
Support 32 kinds of parameters automatic measuring function, and even measurement statistics function, which enables to display parameter values such as Current value, Stand Deviation value, to make data analysis convenient for users.

In addition to commonly used trigger modes, the SDS2000 series oscilloscope supports a variety of smart trigger functions, including Window, Interval, Runt, DropOut, Pattern.

Configured with complete connectivity: EXT TRIG, PASS/FAIL, TRIG OUT, USB Host, USB Device (USBTMC, PictBridge), LAN(VXI-11), USB-GPIB(optional).

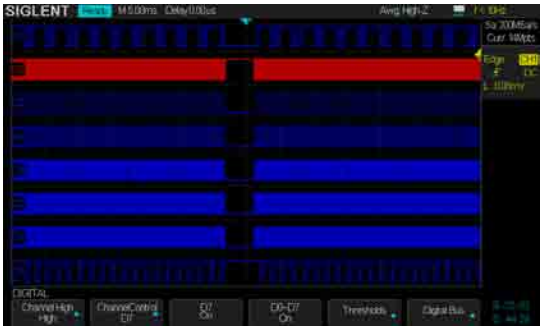


Segmented memory (std.up to 80,000 frames)



History waveform playback function with a time stamp, quickly locate the source of the problem by the cursor or measurement parameters

Power analysis function



8 digital channels (MSO)

Accessories

Standard accessories	A QuickStart Guide	
	A product qualification certificate	
	2/4 sets of passive probes	
	A power cord designed for the instrument and authorized by local country	
	A USB cable	
	A CD(including User Manual, Quick Start, Datasheet and related application software)	
Optional accessories	Digital channel	SDS-2000-LA
	25MHz function/arbitrary waveform generator	SDS-2000-FG
	Decoding for IIC, SPI, UART/RS232, CAN, LIN	SDS-2000-DC
	Power analyzer	SDS-2000-PA
	USB-GPIB adapter	USB-GPIB
	Isolated channel	ISFE
	High-voltage probe	HPB4015
	Current probe	CP4060/CP4200/CP5050/CP5300
	Differential probe	DPB4050/DPB3050

SDM3000

Digital Multimeter

Application

- Research & Development Laboratory
- Detection and Maintenance
- Calibration Laboratory
- Automatic Production Test

Features and Benefits

- Real 5½ digits readings resolution
- Up to 150 rdgs/s measurement speed
- True-RMS AC Voltage and AC Current measuring
- 1Gb Nand flash size, Mass storage configuration files and data files
- Built-in cold terminal compensation for thermocouple
- Standard interface: USB Device, USB Host, LAN, GPIB (only for SDM3055A)
- Support remote control via commands and compatible with commands of main stream multimeters

Specifications

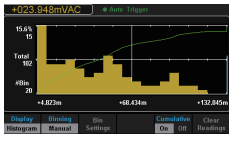
DC Characteristic

Accuracy± （% of Reading +% of Range）[1]

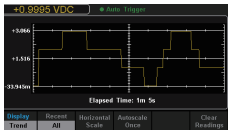
Function	Range[2]	Test current or Load voltage	1 Year 23℃±5℃	Temperature coefficient 0℃~18℃ 28℃~50℃
DC Voltage	200 mV		0.015+0.004	0.0015+0.0005
	2 V		0.015+0.003	0.0010+0.0005
	20 V		0.015+0.004	0.0020+0.0005
	200 V		0.015+0.003	0.0015+0.0005
	1000 V[4]		0.015+0.003	0.0015+0.0005
DC Current	200 uA	<8 mV	0.055+0.005	0.003+0.001
	2 mA	<80 mV	0.055+0.005	0.002+0.001
	20 mA	<0.05 V	0.095+0.020	0.008+0.001
	200 mA	<0.5 V	0.070+0.008	0.005+0.001
	2A	<0.1 V	0.170+0.020	0.013+0.001
	10 A[5]	<0.3 V	0.250+0.010	0.008+0.001
Resistance[3]	200 Ω	1 mA	0.030+0.005	0.0030+0.0006
	2 KΩ	1 mA	0.020+0.003	0.0030+0.0005
	20 KΩ	100 uA	0.020+0.003	0.0030+0.0005
	200 KΩ	10 uA	0.020+0.010	0.0030+0.0005
	2 MΩ	1 uA	0.040+0.004	0.0040+0.0005
	10 MΩ	200 nA	0.250+0.003	0.0100+0.0005
	100 MΩ	200 nA ‖ 10MΩ	1.75+0.004	0.2000+0.0005
Diode Test	2.0 V[6]	1 mA	0.05+0.01	0.0050+0.0005
Continuity Test	2000 Ω	1 mA	0.05+0.01	0.0050+0.0005

Remarks:
[1]Specifications are for 0.5 hour warm-up, "Slow" measurement rate and calibration temperature 18℃~28℃.
[2]20% over range on all ranges except for DCV 1000V, ACV 750V, DCI 10A and ACI 10A.
[3]Specifications are for 4-wire measure or 2-wire measeure under "REF" operation. ±0.2Ω of extra errors will be generated if perform 2-wire measure without "REF" operation.
[4]Plus 0.02mV of error per 1V after the first ±500 VDC.
[5]30 seconds OFF after 30 seconds ON is recommend foe the continuous current that higher than DC 7A or AC RMS 7A.
[6]Accuracy sepcifications are only for voltage measuring at input terminal. The typical value of current under measure is 1mA. Voltage drop at diode junction may vary with current supply.

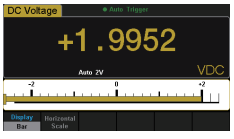
Features



Historgram



Trend Chart



Bar Chart

Interface

Standard Accessories

SDS1000CFL

Digital Storage Oscilloscope

Application

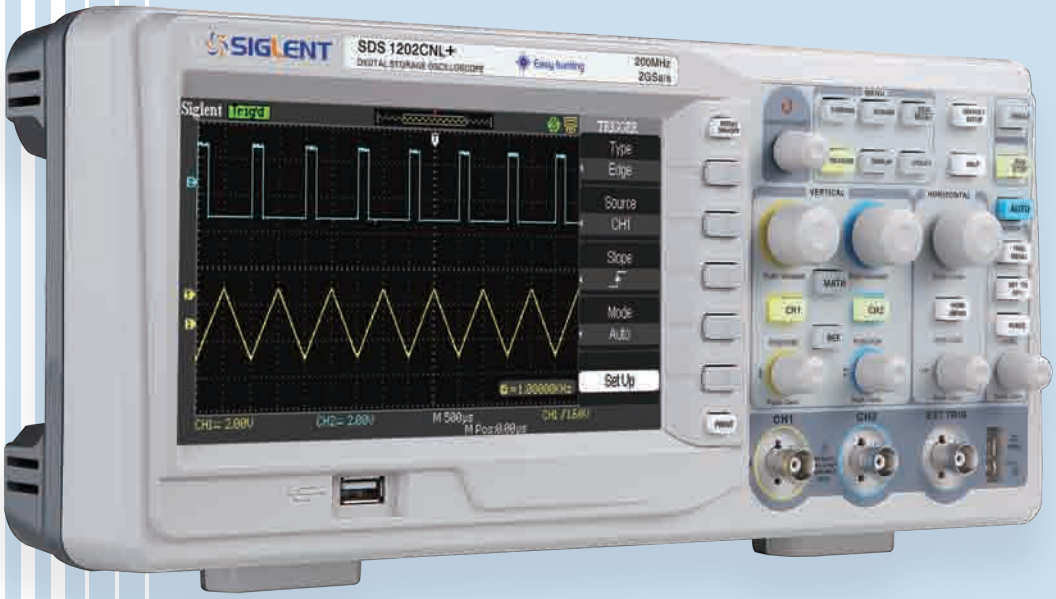
- Embedded electronic circuit design and test
- Mechanical and electrical products design and analysis
- Education and research
- Product quality control
- Real-time signal display
- Product test, circuit function test

Features and Benefits

- Up to 300MHz bandwidth, 2GSa/s real time sampling rate
- Channels: 2/4CH + 1 EXT
- 7 inches(8*18div) color TFT-LCD
- 6 digits hardware frequency counter, real time counting display
- Waveform record and play back function
- Unique digital filter and data recorder function
- Embedded 12 languages, online help, one key storing and one key printing
- Interface: Double USB Host, USB Device, LAN, Pass/Fail
- Support USB-TMC and VXI-11 protocol, support SCPI programming

Specifications

Model	SDS1302CFL SDS1304CFL	SDS1202CFL SDS1204CFL	SDS1104CFL	SDS1074CFL
Bandwidth	300MHz	200MHz	100MHz	70MHz
Channels	4CH +1 EXT/2CH +1 EXT		4CH+1 EXT	
Real time sampling rate	2GSa/s(half channel),1GSa/s(each channel)			
Equivalent sampling rate	50GSa/s			
Memory depth	24Kpts(half channel),12Kpts(each channel)			
Rise time	<1.2ns	<1.7ns	<3.5ns	<5.0ns
Input impedance	1MΩ||13pF, 50Ω		1MΩ||13pF	
Time base range	1.0ns/div-50s/div	2.5ns/div-50s/div	2.5ns/div-50s/div	5ns/div-50s/div
	Scan:100ms-50s/div			
Vertical sensitivity	2mv-5v/div(1-2-5 order)			
Vertical resolution	8bit			
Trigger source	CH1, CH2, CH3, CH4, Ext, Ext/5, AC Line			
Trigger types	Edge, Pulse, Video, Slope, Alternative			
Math operation	+, -, *, /, FFT			
Digital filter	High pass, Low pass, Band pass, Band stop			
Max input voltage	±400 V (DC+AC Pk-Pk) CATI CAT II			
Internal storage	2/4 groups of reference waveform, 20 groups of settings,20 groups of waveforms			
External storage	Bitmap save, CSV save, Waveform save, Setting save			
Language	English, French, German, Russian, Spanish, Simplified Chinese, Traditional Chinese, Portuguese, Japanese, Korean, Italian, Arabic			
Interface	Double USB Host, USB Device, LAN, Pass/Fail			
Display	7 inches color TFT- LCD			



SDS1000DL/CML/CNL+

Digital Storage Oscilloscope

Application

- Electronic circuit design and debugging
- Electrical circuit function test
- Inspect instantaneous signal
- Industrial control and measuring
- Products quality control
- Education and training

Features and Benefits

- 50MHz to 200MHz Bandwidth
- 500MSa/s~2GSa/s sampling rate,18Kpts~2Mpts memory depth
- 7 inches (8*18div) color TFT-LCD display
- 6 digits hardware frequency counter, real time counting display
- Waveform record and play back function
- Unique digital filter and data recorder function
- Embedded 12 languages, online help, one key storing and one key printing
- Interface: USB Device, USB Host, RS-232, Pass/Fail
- Support USB-TMC protocol and SCPI programming command control

Specifications

Model	SDS1052DL	SDS1072CML SDS1102CML	SDS1202CNL+
Bandwidth	50MHz	70/100MHz	200MHz
Channels	2CH +1EXT		
Real time sampling rate	500MSa/s	1GSa/s	2GSa/s
Equivalent sampling rate	50GSa/s		
Memory depth	32Kpts	2Mpts	18Kpts
Input impedance	1MΩ||17pF	1MΩ||17pF	1MΩ||14pF, 50Ω
Vertical sensitivity	2mv~10v/div	2mv~10v/div	2mv~5v/div
Vertical resolution	8bit		
Trigger source	CH1, CH2, Ext, Ext/5, AC Line		
Trigger types	Edge, Pulse, Video, Slope, Alternative		
Math operation	+, -, *, /, FFT		
Digital filter	High pass, Low pass, Band pass, Band stop		
Data recorder function	√	√	√
Max input voltage	± 400 V (DC+AC Pk-Pk) CAT I CAT II		
Internal storage	2 groups of reference waveform, 20 groups of setting,10 groups of waveform (SDS1202CNL+: 20 groups)		
External storage	Bitmap save, CSV save, Waveform save, Setting save		
Lasting	Turn off, 1s, 2s, 5s, infinite		
Language	English, French, German, Russian, Spanish, SimplifiedChinese, TraditionalChinese, Portuguese, Japanese, Korean, Italian, Arabic		
Interface	USB Host, USB Device, RS-232, Pass/Fail		
Display	7 inches color TFT-LCD		
Power	AC 100-240V, 45Hz-440Hz, 50VA Max		

Standard Accessories

SHS1000

Handheld Digital Oscilloscope

Application

- Embedded electronic circuit design and test
- Mechanical and electrical products design and analysis
- Manufacturing and circuit function test
- Differential signal analysis

Features and Benefits

- Combines the functions of oscilloscope, multimeter and recorder in one
- Isolated oscilloscope channels, isolation level: CAT II 1000V and CAT III 600V
- 60MHz/100MHz bandwidth, 1G sampling rate, 2M memory depth, 7M recording length
- Built-in lithium battery
- 5.7 inches color TFT-LCD

Oscilloscope Specification

Model	SHS1102	SHS1062
Bandwidth	100MHz	60MHz
Rise time	≤3.5ns	≤5.8ns
Real time sampling rate	1GSa/s	
Equivalent sampling rate	50GSa/s	
Vertical sensitivity	5mV – 100V/div	
Time base range	2.5ns – 50ns/div	5ns – 50s/div
	Scan:100ms – 50s/div	
Memory depth	2Mpts	
Triggering	Edge, Pulse, Video, Slope, Alternative	
Vertical resolution	8bit	
Triggering frequency counter	6 digits	
Data recorder	7M points	
Trend plot	800K/CH	
Interface	USB Device, USB Host	
Math operation	+, -, * , /, FFT	

Multimeter Specification

Maximum resolution	6000 Counts	
Item	Range	Accuracy
DC voltage	60mV	±1%±15digit
	600mV – 1000V	±1%±5digit
AC voltage	60mV	±1%±15digit
	600mV – 750V	±1%±5digit
DC current	60mA – 600mA	±1%±5digit
	6A – 10A	±1.5%±5digit
AC current	60mA – 600mA	±1%±5digit
	6A – 10A	±1.5%±5digit
Capacitance	40nF 400nF – 400uF	±3%±10digit ±4%±5digit
Resistance	600Ω-60MΩ	±1%±5digit
Continuity	<50Ω Buzzer sounds	
Diode	0V – 2V	
Trend plot	1.2M points	
Measuring mode	Manual/Auto	

Isolation Level

Max input Voltage	
Input by input port directly	CATII 300V
Input by 10: 1 probe	CATII 1000V, CAT III 600V
The Max input voltage of Multimeter	DC 1000V, AC 750V
Max floating voltage	
Float voltage between BNC reference and earth ground	CATII 1000V, CAT III 600V
Float voltage between BNC reference	CATII 1000V, CAT III 600V
Float voltage between multimeter reference and earth ground	CATII 600V, CAT III 300V
Security: Isolated Handheld Digital Oscilloscope should be designed according to the standard of level II and pollution degree level II which apply to measure 1000V. Or according to the standard of level III and pollution degree level III which apply to measure 600V.	

Multimeter Specification

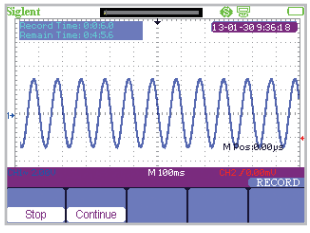
Display	5.7 inches color TFT-LCD, 320*234
Power supply	With battery or apply DC adapter to get power from outside
Power mode	Lithium battery: 7.4V 4500mAh,Battery persisting> 4 hours DC adapter: 100-240V 50/60Hz input 9V 4A output.
Net Weight	1.5 Kg
Dimension	259.5mm*163.2mm*53.3mm
Accessories	Two Passive Probes, Multimeter pen, USB data cable, DC adapter, Manual, CD, Toolbox.

SHS800

Handheld Digital Oscilloscope

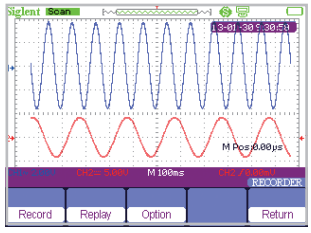
Application

- Automotive electronics, electric automobile test
- Power system strong electricity test
- Plant automation control system



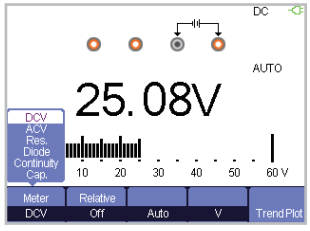
High-performance oscilloscope

- Bandwidth:100MHz,60MHz
- Real-time sampling rate:1GSa/s
- Memory depth:2Mpts.



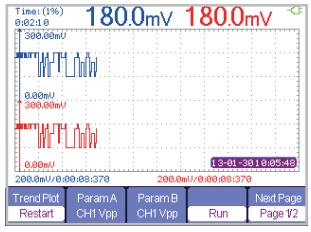
Data recorder function

- 7M internal storage, up to18 hours recording time
- USB port, up to 3000 hours recording time
- Record, replay function supported



High precision multimeter

- 6000 counts display
- Accurate measurement of DCV, ACV, DCI, ACI
- Accurate measurement of Resistance, Diode, Capacitance, Continuity



Trend Plot

- 32 measurement trend plot analyzer
- Scope: 800k/CH points capacity, more than 24 hours recording
- Meter: 1.2M points capacity 6000 hours recording time at 0.05Sa/s

Oscilloscope Specification

Model	SHS820	SHS810	SHS806
Bandwidth	200MHz	100MHz	60MHz
Rise time	≤1.75ns	≤3.5ns	≤5.8ns
Real time sampling rate	500MSa/s	1GSa/s	
Equivalent sampling rate	50GSa/s		
Vertical sensitivity	2mV – 100V/div		
Time base range	2.5ns – 50ns/div		5ns – 50s/div
	Scan:100ms – 50s/div		
Memory depth	32Kpts	2Mpts	
Triggering	Edge, Pulse, Video, Slope, Alternative		
Vertical resolution	8bit		
Triggering frequency counter	6 digits		
Data Recorder	7M points		
Trend plot	800K/CH		
Interface	USB Device, USB Host		
Math operation	+, -, * , /, FFT		

Multimeter Specification

Maximum resolution	6000 Counts	
Item	Range	Accuracy
DC Voltage	60mv 60mv – 1000v	±1%±15digit ±1%±5digit
AC Voltage	60mv 600mV – 750V	±1%±15digit ±1%±5digit
DC Current	60 mA 6A – 10A	±1%±5digit ±1.5%±5digit
AC Current	60 mA 6A – 10A	±1%±5digit ±1.5%±5digit
Capacitance	40nF 400nF – 400μF	±3%±10digit ±4%±5digit
Resistance	600Ω – 60MΩ	±1%±5digit
Continuity	<50Ω Buzzer sounds	
Diode	0V – 2V	
Trend plot	1.2M points	
Measuring mode	Manual/Auto	

General Feature

Display	5.7 inches color TFT-LCD, 320*234
Power supply	Charging/Battery
Power mode	Lithium battery: 7.4V 5000mAh, Battery lasts >5 hours; DC adapter, 100-240V 50/60Hz input, 9V 4A output
Net weight	1.5 Kg
Dimension	259.5mm*163.2mm*53.3mm
Accessories	Two passive probes, multimeter pen, USB data cable, DC adapter, manual, CD.

SDG5000

Function/Arbitrary Waveform Generator

Application

- IC test
- Simulate sensor
- Simulate environment signals
- Electrical circuit function test
- Education and training

Features and Benefits

- Apply DDS technology, double channels output, phase adjustable
- Output frequency up to 160MHz, 500MSa/s sampling rate, 14bit vertical resolution, 512Kpts max wave length
- 2ppm high frequency stability, -116dBc/Hz low phase noise
- Abundant modulation functions, sweep-frequency output, burst output
- Built-in high precision frequency counter, frequency range: 100mHz - 200MHz
- Adopt unique EasyPulse technology, can output the pulse signal which have low jitter, fast rising and falling edge, very small duty cycle. Edge and pulse width can be a wide range of adjustment.
- Seamless work with siglent Digital Storage Oscilloscope
- Support USB-TMC protocol and SCPI programming command control

Specifications

Model	SDG5162	SDG5122	SDG5082
Maximum output frequency	160MHz	120MHz	80MHz
Output channels	2		
Sampling rate	500MSa/s		
Wave length	CH1:16Kpts,CH2:512Kpts		
Frequency resolution	1μHz		
Vertical resolution	14bit		
Waveform	Sine, Square, Ramp, Pulse, Gaussian white noise, Arb		
Modulation function	AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst		
Amplitude	CH1/CH2≤40MHz: 1mVpp~10Vpp(50Ω), 2mVpp~20Vpp(high impedance) 40MHz~100MHz: 1mVpp~5Vpp(50Ω), 2mVpp~10Vpp(high impedance) 100MHz~160MHz: 1mVpp~1.5Vpp(50Ω), 2mVpp~3Vpp(high impedance)		
Frequency counter	Frequency range: 100 mHz ~ 200 MHz		
Interface	USB Host, USB Device		
Optional interface	USB-GPIB Adapter		
Dimension	261mm*104.85mm*343.8mm		

SDG1000

Function/Arbitrary Waveform Generator

Application

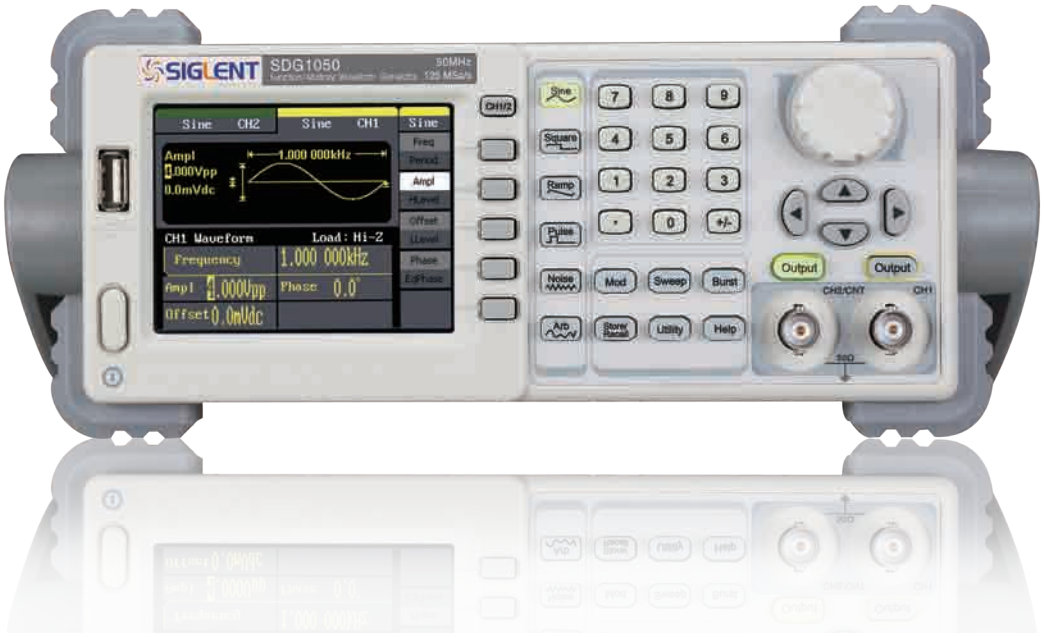
- IC test
- Simulate sensor
- Simulate environment signals
- Electrical circuit function test
- Education and training

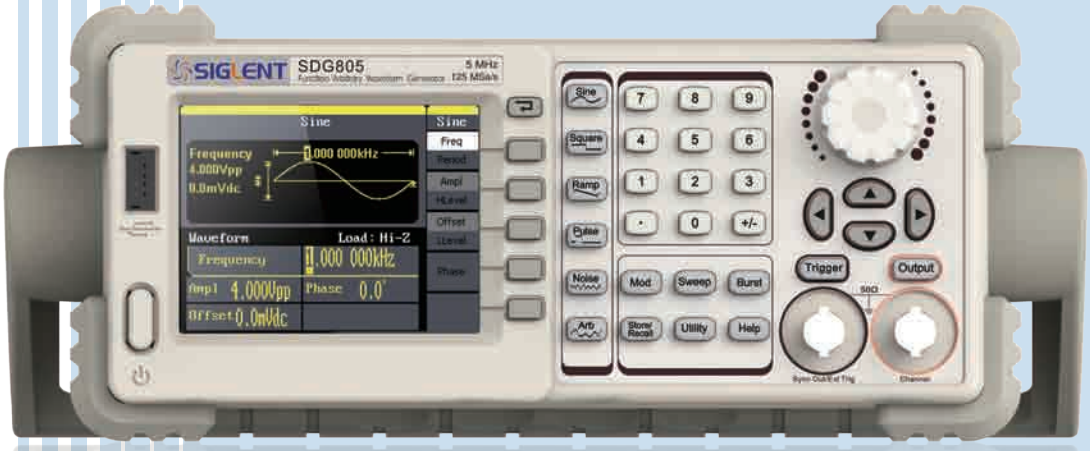
Features and Benefits

- Apply DDS technology, double channels output, phase adjustable
- Output frequency up to 50MHz,125MSa/s sampling rate, 14bit vertical resolution, 16Kpts wave length
- 5 types of standard waveforms, built-in 46 types of arbitrary waveforms
- Abundant modulation functions, sweep-frequency output, burst output
- Built-in high precision frequency counter, frequency up to 200MHz
- Interfaces: USB Device, USB Host, USB-GPIB Adapter(optional)
- Seamlessly work with siglent Digital Storage Oscilloscope
- Support USB-TMC protocol and SCPI programming command control

Specifications

Model	SDG1050	SDG1025	SDG1010
Maximum output frequency	50MHz	25MHz	10MHz
Output channels	2		
Sampling rate	125MSa/s		
Wave length	16Kpts		
Frequency resolution	1μHz		
Vertical resolution	14bit		
Waveform	Sine, Square, Ramp, Pulse, Gaussian white noise, 48 types of built-in function waveforms, Arb		
Modulation function	AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst		
Amplitude	CH1: 2mVpp~10Vpp(50Ω), 4mVpp~20Vpp(high impedance) ≤10MHz 2mVpp~5Vpp(50Ω), 4mVpp~10Vpp(high impedance) >10MHz CH2: 2mVpp~3Vpp(50Ω), 4mVpp~6Vpp(high impedance)		
Frequency counter	Frequency range: 100 mHz ~ 200 MHz		
Interface	USB Host, USB Device		
Optional interface	USB-GPIB adapter		
Dimension	229mm*105mm*281mm		





SDG800

Function/Arbitrary Waveform Generator

Application

- Simulate sensor
- Simulate environmental signal
- Circuit function test
- IC chip test
- Research and education

Features and Benefits

- Advanced DDS technology,125MSa/s sampling rate, 14bit vertical resolution
- Single channel output, 5 kinds of standard waveforms, built-in 46 kinds of arbitrary waveforms (including DC)
- Complete modulation functions: AM, DSB-AM, FM, PM, FSK, ASK, PWM, linear/logarithmic sweep and burst
- Innovative EasyPulse technology, can output pulse of low jitter, quick rising/falling edge
- Standard interfaces: USB Device, USB Host, support U-Disk storage and software update
- Provide 10 nonvolatile storage spaces for user's arbitrary waveforms
- Be capable of seamlessly connected to SIGLENT Digital Storage Oscilloscope
- Configurable with powerful arbitrary waveform editing software EasyWave

Specifications

Model	SDG805	SDG810	SDG830
Maximum output frequency	5MHz	10MHz	30MHz
Output channels	1		
Sampling rate	125 MSa/s		
Wave length	16 kpts		
Frequency resolution	1 μHz		
Vertical resolution	14bit		
Waveform	Sine, Square, Ramp, Pulse, Gaussian white noise, Arbitrary waveform, 46 types of built-in arbitrary waveforms		
Sine wave	1μHz ~ 5MHz	1μHz ~ 10MHz	1μHz ~30MHz
Square wave	1μHz ~ 5MHz	1μHz ~ 10MHz	1μHz ~10MHz
Pulse	500μHz ~ 5MHz	500μHz ~ 5MHz	500μHz ~5MHz
Ramp/Triangular	1μHz ~ 300KHz	1μHz ~ 300KHz	1μHz ~ 300KHz
Gaussian white noise	>5MHz bandwidth(-3dB)	>10MHz bandwidth(-3dB)	>30MHz bandwidth(-3dB)
Arbitrary waveform	1μHz ~ 5MHz	1μHz ~ 5MHz	1μHz ~ 5MHz
Modulation function	AM, FM, PM, DSB-AM, FSK, ASK, PWM, Sweep, Burst		
Standard configuration	USB Host & USB Device		
Amplitude(high impedance)	4mVpp~20Vpp(≤10MHz) 4mVpp~10Vpp(>10MHz)		

SPD3303

Programmable Linear DC Power Supply

Application

- R&D lab general purpose testing
- Teaching lab experiment
- Automotive electronic test
- Production testing and quality assessment inspection

Features and Benefits(SPD3303D/S)

- Separate control and independent triple outputs:30V/3A*2, 2.5V/3.3V/5V/3A*1, total 195W power
- Max 5 digits voltage and 4 digits current display, min resolution: 1mV, 1mA
- Three output modes: independent, series and parallel connect
- 4.3 inches TFT-LCD display with 480*272 high-resolution
- 100V/120V/220V/230V compatible design, to meet the need of different grid
- Smart temperature controlled fan, effectively reduce the noise
- Support timing output, waveform display and SCPI remote command, labview driver

Features and Benefits (SPD3303C)

- 3 independent high precision output: 30V/3A*2, 2.5V/3.3V/5V/3A*1, total 195W power
- 4 digits voltage and 3 digits current display, min resolution: 10mV, 10mA
- Three output modes: independent, series and parallel
- 100V/120V/220V/230V compatible design, to meet the need of different power grids
- Smart temperature controlled fan, effectively reduce the noise
- Save/Recall 5 group system specifications, support data storage expansion
- Connected to PC via USB Device, support SCPI command, to meet the control and communication needs

Specifications

Model	SPD3303C	SPD3303D	SPD3303S
Channels	CH1: DC voltage range: 0-30V, DC current range: 0-3A		
	CH2: DC voltage range: 0-30V, DC current range: 0-3A		
	CH3: DC voltage range: 2.5/3.3/5.0V, DC current range: 0-3A		
Max output power	195W		
Resolution	10mV / 10mA		1mV / 1mA
Display digits	LED display 4 digits voltage 3 digits current	4.3 inches TFT-LCD display 4 digits voltage 3 digits current	4.3 inches TFT-LCD display 5 digits voltage 4 digits current
Ripple noise	CV/CH3: ≤1mVrms(5Hz~1MHz) CC: ≤3mArms		
Standard interface	USB Device		
Dimension	225mm(W)×136mm(H)×275mm(D)		
Weight	7.5kg(SPD3303C) 8kg(SPD3303D/S)		

Probes and Accessories

Model	PB470	PP510	PP215	PP430
Attenuation	1X/10X	1X/10X	1X/10X	1X/10X
Input resistance	1MΩ/10MΩ	1MΩ/10MΩ	1MΩ/10MΩ	1MΩ/10MΩ
Input capacitance	1×:85pF-120pF	1×:85pF-120pF	1×:85pF-120pF	1×:46pF
	10×:18.5pF-22.5pF	10×:18.5pF-22.5pF	10×:16pF-20pF	10×:12pF
Compensation scope	15pF-45pF	10pF-30pF	10pF-35pF	10pF-35pF
System bandwidth	1X:DC-6MHz	1X:DC-6MHz	1X:DC-6MHz	1X:DC-10MHz
	10X:DC-70MHz	10X:DC-100MHz	10X:DC-150MHz	10X:DC-300MHz
Input voltage	1X:<300V DC +Peak AC	1X:<300V DC +Peak AC	1X:<300V DC +Peak AC	1X:<300V DC +Peak AC
	10X: <600V DC +Peak AC	10X:<600V DC +Peak AC	10X:<600V DC+Peak AC	10X:<600V DC+Peak AC
Operating Temperature Range	-15℃~+75℃	-15℃~+75℃	-15℃~+75℃	+5℃~+40℃
Net Weight	50g	50g	50g	50g
Cable length	120cm	120cm	120cm	120cm

Isolated Front End (ISFE)

Specification

Input Voltage range	-600Vpk~+600Vpk
Attenuation ratio	200:1
Bandwidth	≤1MHz
Output voltage range	-3Vpk~+3Vpk
Working voltage	5V±5%, USB power
Working current	<200mA
Float voltage between channel and ground	1000Vrms
Float voltage between each channel	2000Vrms
Input Resistance	9 MΩ

High Voltage Probe HPB4015	Current Probe CP4060	Current Probe CP4200
50MHz Bandwidth 1000X Attenuation ratio 15KV Max working voltage	100KHz Bandwidth 400mA-60A Measuring range 50mV/A, 5mV/A Switch ratio	150KHz Bandwidth 400mA-200A Measuring range 50mV/A, 5mV/A Switch ratio
Current Probe CP5050	**Current Probe CP5300**	**Differential Probe DPB4050**
40MHz Bandwidth 30Arms Max continual current 50A peak Max peak current	12MHz Bandwidth 150Arms Max continual current 300A peak Max peak current	50MHz Bandwidth 6500V Max differential voltage 100X/200X/500X/1000X Attenuation ratio
Differential Probe DPB3050	**USB-GPIB Communication module**	**Oscilloscope Carrying Case**
50MHz Bandwidth 10X/100X Attenuation ratio 800Vpp Max differential voltage	USB-GPIB Communication module Compatible with SDG800/ SDG1000/SDG5000 generater	SDS1000 oscilloscope carrying case

Service Promise

Service Promise:

Since the date of purchase, we offer three year's warranty for the main unit:

•During the warranty period, if the products cause any hardware or software failure because of the quality, Siglent's after-sales service center or Siglent's designated maintenance points will offer the maintenance of the fault products for the user.

•Because of improper use or any other artificial reason, the damage won't be included in the free maintenance.

1. Extension after-sales service

Extension service is based on the main unit (not including accessories) as an object. During the extension service, Siglent still offer free maintenance after the standard warranty period.

1.1 Three advantages:

•Guarantee investment. To extend the life cycle of the products
•Save money. To prevent the high cost of maintenance after the warranty period.
•Avoid the repeated investment. To prevent buying new equipments because it can't be repaired after the warranty period.

1.2 The content of the extension service

You can buy the following extension service according to your demand:

Solution	Viability	Instruction
ES4	One year after the warranty period	According to the service terms, Siglent will offer another one year for the after-sales maintenance service
ES5	Two years after the warranty period	According to the service terms, Siglent will offer another two years for the after-sales maintenance service

2. Calibration services

After long-term use, oscilloscope will cause the deviation of measured value and waveform display, because of its work temperature and humidity. Siglent will restore the original performance and accuracy of factory setting to calibrate the deviation.

•Eliminate the error of measurement
•Restore the original performance and accuracy of the factory setting to the "new" state
•The upgrade of the firmware and the software
•Make the instruments comply with the standard of the ISO9001 quality management process
•Traceable calibration certificates

实用新型专利证书

发明专利证书

发明专利证书

外观设计专利证书

发明专利证书

发明专利证书

发明专利证书

发明专利证书

CE Certificate of Conformity

CE Certificate of Conformity

CE Certificate of Conformity

CE Certificate of Conformity

QUALITY MANAGEMENT SYSTEM
CERTIFICATE

ENVIRONMENTAL MANAGEMENT SYSTEM
CERTIFICATE

Certificate of Conformity

The Certification Certificate
Of Quality Management System
SHENZHEN SIGLENT TECHNOLOGIES CO., LTD.

SIGLENT®

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